

# UNITED STATES 1 TENT AND TRADEMARK OFFICE



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/581,651	10/10/2000	Seth Lawrence Schor	002.00120	4652	
5100 75	05/03/2002				
GENENCOR INTERNATIONAL, INC.			EXAMINER		
925 PAGE MILL ROAD PALO ALTO, CA 94304			RAWLINGS, STEPHEN L		
TALO TILIO,			ART UNIT	PAPER NUMBER	
			1642	10	
			DATE MAILED: 05/03/2002	, ,	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	_ · ·						
Office Action Summany	09/581,651	SCHOR ET AL.					
Office Action Summary	Examiner	Art Unit					
The MAILING DATE of this communication app	Stephen L. Rawlings, Ph.D.	1642					
Period for Reply	lears on the cover sheet with	rule correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a rep within the statutory minimum of thirty ( vill apply and will expire SIX (6) MONT cause the application to become ABAI	ly be timely filed  (30) days will be considered timely.  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 27 M	<u> 1arch 2002</u> .						
2a) This action is <b>FINAL</b> . 2b) Thi	is action is non-final.						
3) Since this application is in condition for allowa closed in accordance with the practice under the							
Disposition of Claims	ex parto quayro, 1000 0.5.	71, 100 0.0. 210.					
4)⊠ Claim(s) <u>1-59</u> is/are pending in the application							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.	6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.							
8) ☐ Claim(s) <u>1-59</u> are subject to restriction and/or e	election requirement.						
Application Papers	_						
9) The specification is objected to by the Examiner		- Francis as					
10) The drawing(s) filed on is/are: a) accept							
Applicant may not request that any objection to the 11) The proposed drawing correction filed on							
		approved by the Examinor.					
If approved, corrected drawings are required in reply to this Office action.  12) ☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:	, p						
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
Copies of the certified copies of the prior application from the International But     See the attached detailed Office action for a list of the certified section.	reau (PCT Rule 17.2(a)).	-					
14) Acknowledgment is made of a claim for domestic	•						
<ul> <li>a)  The translation of the foreign language pro</li> <li>15)  Acknowledgment is made of a claim for domesti</li> </ul>							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inf	ommary (PTO-413) Paper No(s)  formal Patent Application (PTO-152)  te to Compy.					

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#### **DETAILED ACTION**

1. The amendment filed October 10, 2000 in Paper No. 7 is acknowledged and has been entered. Claims 3-8, 13, 24, 35, 39, 44, 47, 49, and 51-58 have been amended. Claim 59 has been added.

- 2. The amendment filed July 26, 2001 in Paper No. 9 is acknowledged and has been entered.
- 3. The amendment filed March 27, 2002 in Paper No. 17 is acknowledged and has been entered.
- 4. Claims 1-59 are pending in the application and are currently subject to restriction and an election requirement.

# Sequence Rules Compliance

5. The communication filed March 27, 2002 in Paper No. 17 is not fully responsive to the Office communication mailed June 21, 2001 (Paper No. 8) for the reason(s) set forth on the attached Notice To Comply With The Sequence Rules and in the paragraph below. Applicants must comply with the requirements of the sequence rules (37 CFR §§ 1.821 - 1.825) before the application can be examined under 35 U.S.C. §§ 131 and 132.

In particular, it is noted that the application fails to meet the requirements of 37 CFR §§ 1.821-1.825 for the following reasons:

- (a) Claims 27 and 28 recite amino acid sequences that are not identified by sequence identification numbers corresponding to same amino acid sequences set forth in the Sequence Listing.
- (b) Figure 2 depicts two amino acid sequences that are not identified by sequence identification numbers corresponding to same amino acid sequences set forth in the Sequence Listing.

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(c) Figure 3 depicts multiple amino acid sequences that are not identified by sequence identification numbers corresponding to same amino acid sequences set forth in the Sequence Listing.

In replying to this Office Action Applicants are requested to correct any further deficiencies, which have not been specifically identified. If necessary to correct the deficiencies, Applicants are required to submit paper and computer-readable copies of a substitute Sequence Listing, together with a statement that both copies are the same and that no new matter has been entered.

Since the reply appears to be *bona fide* attempt to comply with the requirements of the sequence rules (37 CFR §§ 1.821-1.825), Applicants are given the same period of time within which to reply to this Office Action to correct the deficiency so as to comply with the sequence rules (37 CFR §§ 1.821-1.825) in order to avoid abandonment of the application under 37 CFR § 1.821(g).

#### Election/Restrictions

6. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions that are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-13, 27, 29, 51, 54, 56, 57, and 59, drawn to a nucleic acid molecule encoding a polypeptide, a vector comprising said nucleic acid molecule, a host cell comprising said vector, a polypeptide encoded by said nucleic acid molecule, a method for producing said polypeptide, an agent comprising said polypeptide, and a pharmaceutical composition comprising said polypeptide.

Group II, claim(s) 14-18, 24, 25, 45, and 46, drawn to an antibody that binds specifically to the polypeptide of SEQ ID NO: 1.

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Group III, claim(s) 19-24 and 26, drawn to an antibody that binds specifically to fibronectin.

Group IV, claim(s) 28 and 30, drawn to a molecule.

Group V, claim(s) 31-35, drawn to a nucleic acid molecule.

Group VI, claim(s) 36-39 and 44, drawn to a method for diagnosing, assessing risk, or determining a prognosis.

Group VII, claim(s) 40-44, drawn to a method for diagnosing, assessing risk, or determining a prognosis.

Group VIII, claim(s) 47-50, 52, 53, 55, and 58, drawn to a method for modulating, healing, or preventing.

7. The inventions listed as groups I-VIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of group I is producing a nucleic acid molecule encoding a polypeptide having the amino acid sequence set forth in SEQ ID NO: 1.

The special technical feature of group II is producing an antibody that binds specifically to the polypeptide of SEQ ID NO: 1.

The special technical feature of group III is producing an antibody that binds specifically to fibronectin.

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The special technical feature of group IV is producing a molecule that stimulates production of antibodies that bind specifically to fibronectin.

The special technical feature of group V is producing a nucleic acid molecule that selectively hybridizes to a nucleic acid molecule to thereby distinguish a nucleic acid molecule comprising a polynucleotide sequence that encodes the polypeptide of SEQ ID NO: 1 from a nucleic acid molecule comprising a polynucleotide sequence that encodes fibronectin.

The special technical feature of group VI is detecting a polypeptide.

The special technical feature of group VII is detecting a nucleic acid molecule.

The special technical feature of group VIII is administering a polypeptide.

Accordingly, groups I-VIII are not linked by the same or corresponding special technical feature so as to form a single general inventive concept. Furthermore, PCT Rules 13.1 and 13.2 do not provide for a single general inventive concept comprising more than the first claimed product, more than the first claimed method for producing said product, or more than the first claimed method for using said product.

8. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Group I, Species A-E: Claim 27 is generic to a plurality of species comprising a peptide comprising an amino acid sequence selected from the group consisting of (a) SEQ ID NO: 3, (b) SEQ ID NO: 4, (c) SEQ ID NO: 5, (d) SEQ ID NO: 6, and (e) SEQ ID NO: 7, as set forth in claim 29.

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Group II, Species A-E: Claims 14-17 are generic to a plurality of species comprising an antibody reactive towards a molecule comprising a peptide comprising an amino acid sequence selected from the group consisting of (a) SEQ ID NO: 3, (b) SEQ ID NO: 4, (c) SEQ ID NO: 7, (d) SEQ ID NO: 14, and (e) SEQ ID NO: 15, as set forth in claim 18.

Group III, Species A-F: Claims 19-22 are generic to a plurality of species comprising an antibody reactive towards a peptide comprising an amino acid sequence selected from the group consisting of (a) SEQ ID NO: 8, (b) SEQ ID NO: 9, (c) SEQ ID NO: 10, (d) SEQ ID NO: 11, (e) SEQ ID NO: 12, and (f) a specifically identified amino acid sequence derived from the amino acid sequence of a C-terminal fragment of fibronectin, as set forth in claim 23.

Note: If Applicants elect species F in replying to this Office Action, Applicants are required to specifically identify the particular amino acid sequence of the peptide to which the claims are to be drawn.

Group IV, Species A-F: Claim 28 is generic to a plurality of species comprising a peptide comprising an amino acid sequence selected from the group consisting of (a) SEQ ID NO: 8, (b) SEQ ID NO: 9, (c) SEQ ID NO: 10, (d) SEQ ID NO: 11, (e) SEQ ID NO: 12, and (f) a specifically identified amino acid sequence derived from the amino acid sequence of a C-terminal fragment of fibronectin, as set forth in claim 30.

Note: If Applicants elect species F in replying to this Office Action, Applicants are required to specifically identify the particular amino acid sequence of the peptide to which the claims are to be drawn.

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9. Applicants are required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

- 10. Upon the allowance of a generic claim, Applicants will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, Applicants must indicate which are readable upon the elected species. MPEP § 809.02(a).
- 11. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons:

#### Group I, Species A-E:

The special technical feature of species A is producing a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 3.

The special technical feature of species B is producing a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 4.

The special technical feature of species C is producing a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 5.

The special technical feature of species D is producing a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 6.

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The special technical feature of species E is producing a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 7.

Accordingly, species A-E of the invention of group I do not share the same or corresponding special technical feature so as to form a single general inventive concept.

## Group II, Species A-E:

The special technical feature of species A is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 3.

The special technical feature of species B is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 4.

The special technical feature of species C is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 7.

The special technical feature of species D is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 14.

The special technical feature of species E is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 15.

Accordingly, species A-E of the invention of group II do not share the same or corresponding special technical feature so as to form a single general inventive concept.

### Group III, Species A-F:

The special technical feature of species A is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 8.

The special technical feature of species B is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 9.

The special technical feature of species C is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 10.

The special technical feature of species D is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 11.

The special technical feature of species E is producing an antibody reactive towards a polypeptide comprising the amino acid sequence set forth in SEQ ID NO: 12.

The special technical feature of species F is producing an antibody reactive towards a polypeptide comprising a specifically identified amino acid sequence derived from the amino acid sequence of a C-terminal fragment of fibronectin according to claim 23.

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Accordingly, species A-F of the invention of group III do not share the same or corresponding special technical feature so as to form a single general inventive concept.

#### Group IV, Species A-F:

The special technical feature of species A is producing an immunogen comprising the amino acid sequence set forth in SEQ ID NO: 8.

The special technical feature of species B is producing an immunogen comprising the amino acid sequence set forth in SEQ ID NO: 9.

The special technical feature of species C is producing an immunogen comprising the amino acid sequence set forth in SEQ ID NO: 10.

The special technical feature of species D is producing an immunogen comprising the amino acid sequence set forth in SEQ ID NO: 11.

The special technical feature of species E is producing an immunogen comprising the amino acid sequence set forth in SEQ ID NO: 12.

The special technical feature of species F is producing an immunogen comprising a specifically identified amino acid sequence derived from the amino acid sequence of a C-terminal fragment of fibronectin according to claim 23.

Accordingly, species A-F of the invention of group IV do not share the same or corresponding special technical feature so as to form a single general inventive concept.

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12. Applicant is advised that the reply to this requirement to be complete must

include an election of the invention to be examined even though the requirement be

traversed (37 CFR 1.143).

13. Applicant is reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

or more of the currently named inventors is no longer an inventor of at least one claim

remaining in the application. Any amendment of inventorship must be accompanied by

a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

14. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Stephen L. Rawlings, Ph.D. whose telephone number is

(703) 305-3008. The examiner can normally be reached on Monday-Thursday,

alternate Fridays, 8:00AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Anthony C. Caputa, Ph.D. can be reached on (703) 308-3995. The fax

phone numbers for the organization where this application or proceeding is assigned

are (703) 308-4242 for regular communications and (703) 308-4242 for After Final

communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0196.

Stephen L. Rawlings, Ph.D.

Examiner

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DONNA WORTMAN PRIMARY EXAMINER

slr

May 1, 2002

	Application No.	Applicant(s)	Applicant(s)  SCHOR ET AL.	
N (* 4 0 1	09/581,651	SCHOR ET AL.		
Notice to Comply	Examiner	Art Unit		
	Stephen L. Rawlings, P	h.D. 1642		
NOTICE TO COMPLY WITH REQUIREME NUCLEOTIDE SEQUENCE AND/OR AMIN			NING	
Applicant must file the items indicated below within tavoid abandonment under 35 U.S.C. § 133 (extension)				
The nucleotide and/or amino acid sequence disclosure for such a disclosure as set forth in 37 C.F.R. 1.821			e requirements	
1. This application clearly fails to comply with the directed to the final rulemaking notice published the effective filing date is on or after July 1, 1998 1998) and 1211 OG 82 (June 23, 1998).	at 55 FR 18230 (May 1, 1990	0), and 1114 OG 29 (May 1	5, 1990). If	
<ul><li>2. This application does not contain, as a separa required by 37 C.F.R. 1.821(c).</li></ul>	ate part of the disclosure on pa	aper copy, a "Sequence Li	sting" as	
3. A copy of the "Sequence Listing" in computer 37 C.F.R. 1.821(e).	readable form has not been s	submitted as required by		
4. A copy of the "Sequence Listing" in computer computer readable form does not comply with th attached copy of the marked -up "Raw Sequence	e requirements of 37 C.F.R.			
5. The computer readable form that has been fill unreadable as indicated on the attached CRF Di submitted as required by 37 C.F.R. 1.825(d).				
☐ 6. The paper copy of the "Sequence Listing" is no as required by 37 C.F.R. 1.821(e).	ot the same as the computer	readable from of the "Sequ	uence Listing"	
☑ 7. Other: Applicants are required to comply we application will be examined. If it is necessary, App copies of the Sequence Listing.  See attack	licants are required to submit	t substitute paper and com		
Applicant Must Provide:  ☑ An initial or substitute computer readable form (0	•			
☑ An initial or substitute paper copy of the "Sequer specification.	nce Listing", as well as an am	endment directing its entry	into the	
A statement that the content of the paper and cono new matter, as required by 37 C.F.R. 1.821(e) or			licable, include	
For questions regarding compliance to these	e requirements, please o	contact:		

For Rules Interpretation, call (703) 308-4216

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